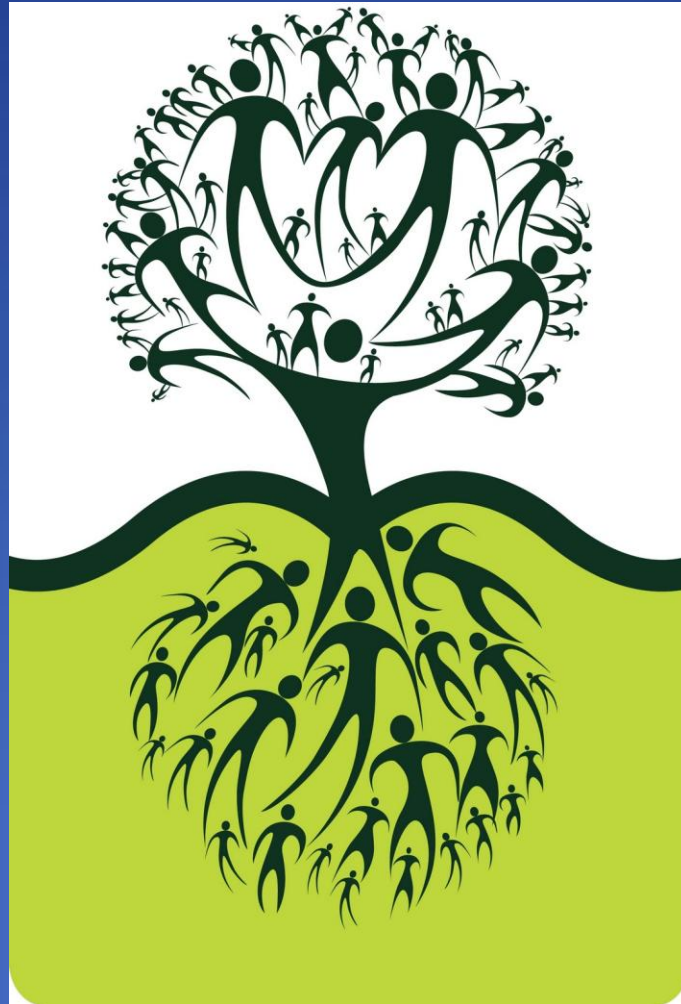


Trees and People – Unit 11



Tree Stewards

- Provide:
 - Education to community:
 - Lack of knowledge of trees.
 - Lack of planning by developer/homeowner.
 - Poor communications.

Trees and Construction

- Damage:
 - Most important is root damage:
 - Physical damage: grading, excavation and trenching
 - Soil compaction
 - Chemical spills
 - Impervious pavement

Trees and Construction

- Damage:
 - Stem and Crown:
 - Equipment
 - Bumping
 - Scraping
 - Ripping
 - Starts Decay



Crown dieback
Often evident only after
several years

Tree / building
incompatibility

Bark wounds

Material storage

Raising and lowering
of soil levels



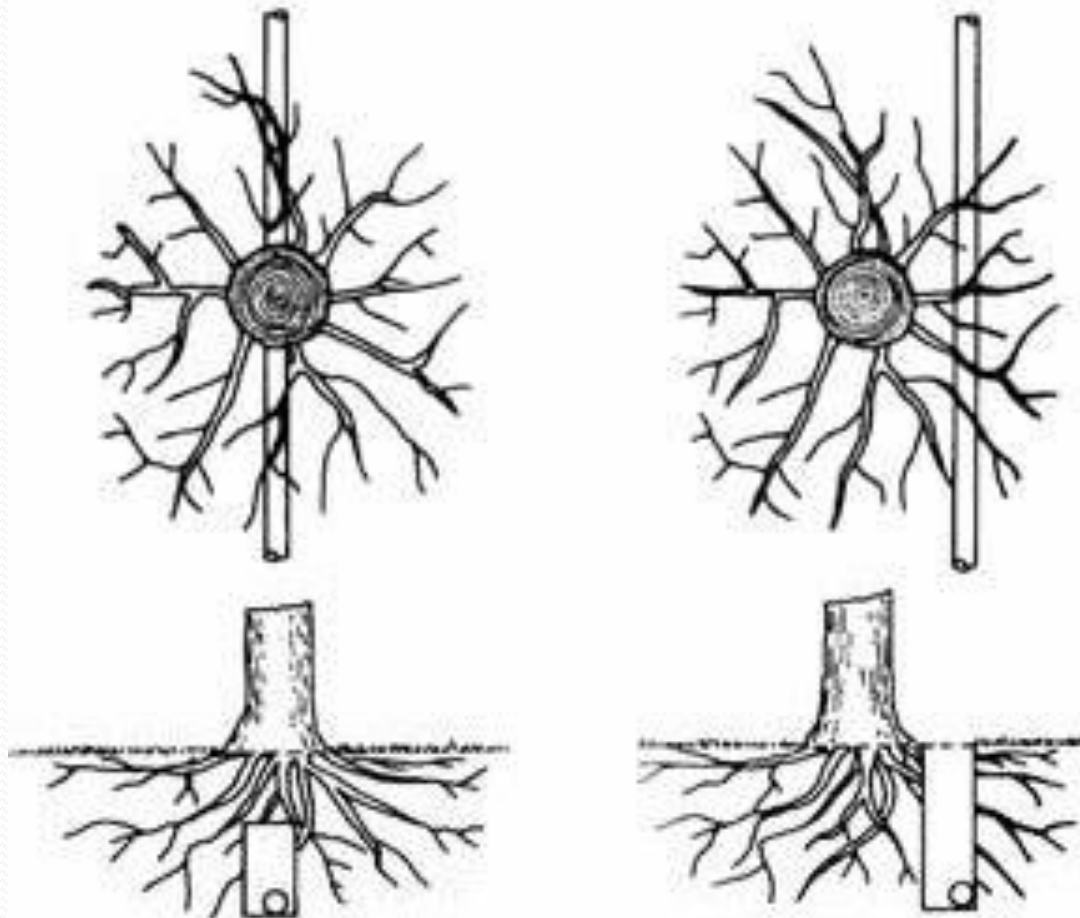
Soil pollution

Trenching for drains
and service runs

Excavation and
stripping of
topsoil



The roots of a tree extend far from the trunk and are found mostly in the upper 6 to 12 inches of soil.



Less damage is done to tree roots if utilities are tunneled under a tree (right, top and bottom) rather than across the roots (left, top and bottom).







Symptoms of Tree Stress Triggered by Construction

- Shorter shoot growth
- Smaller leaves
- Thinner crown
- Leaf scorch
- Wilting
- Early defoliation
- watersprouts

Symptoms Cont....

- Heavy seeding
- Dieback
- Physical damage from equipment
- Wood borers/pest
- Death



http://www.youtube.com/watch?v=O-QNpbBF8zI&feature=player_detailpage

TREE PROTECTION AREA KEEP OUT!

TREES ENCLOSED BY THIS FENCE ARE PROTECTED BY PLANNING CONDITIONS AND ARE SUBJECTS OF A
TREE PRESERVATION ORDER
(TOWN & COUNTRY PLANNING ACT 1990)

CONTRAVENTION OF TREE PRESERVATION ORDER MAY LEAD TO CRIMINAL PROSECUTION

THE FOLLOWING **MUST** BE OBSERVED BY ALL PERSONS:-

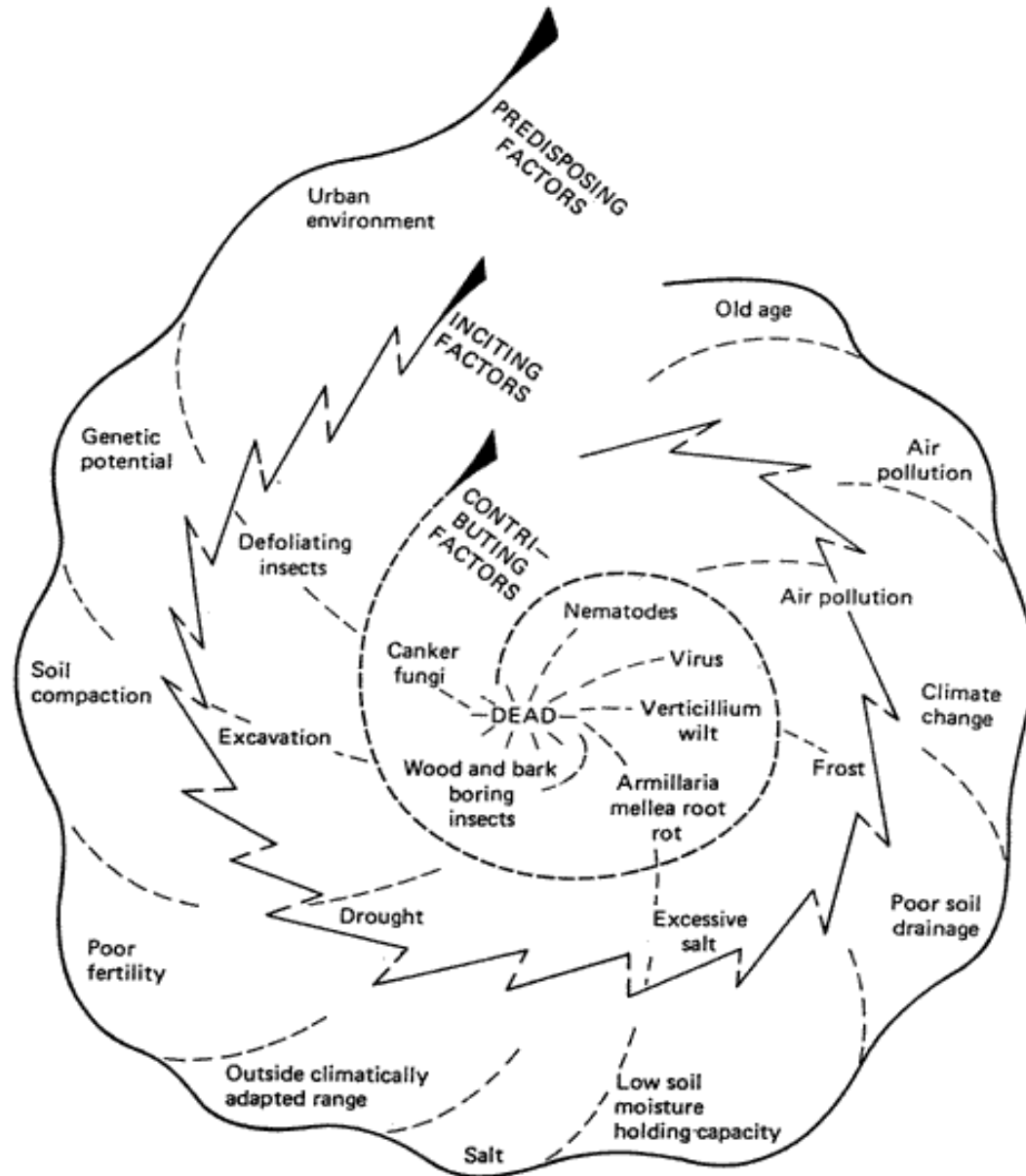
- THE PROTECTIVE FENCING MUST NOT BE REMOVED
- NO PERSON SHALL ENTER THE PROTECTED AREA
- NO MACHINE OR PLANT SHALL ENTER THE PROTECTED AREA
- NO MATERIALS SHALL BE STORED IN THE PROTECTED AREA
- NO SPOIL SHALL BE DEPOSITED IN THE PROTECTED AREA
- NO EXCAVATION SHALL OCCUR IN THE PROTECTED AREA

**ANY INCURSION INTO THE PROTECTED AREA MUST BE
WITH THE WRITTEN PERMISSION OF THE LOCAL PLANNING AUTHORITY**

Treat Tree Damage

- Treat as soon as possible
- Inspect whole tree – roots to crown
- Safety is number one goal
- Tree may need to be removed
- Prune torn/split branches
- Bark trace
- Water management
- Mulch
- Irrigate





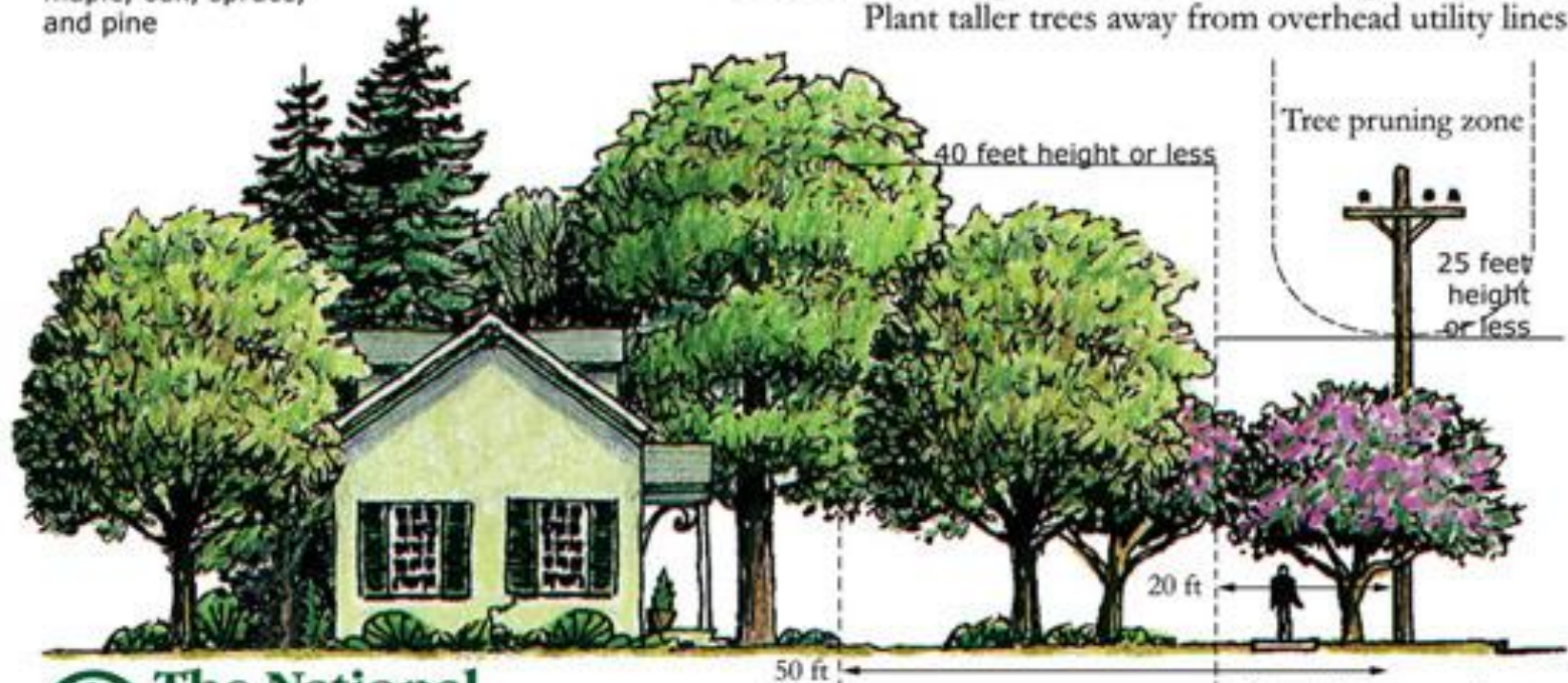


Trees and Utilities

Tall trees, such as:
maple, oak, spruce,
and pine

Plant the right tree in the right place

Plant taller trees away from overhead utility lines



Medium trees, such as:
washington hawthorn
and goldenraintree

Small trees, such as:
redbud, dogwood,
and crabapple

Tree Line USA® Program

Every day in communities all across America, people depend on safe, reliable electric service to power their homes, businesses, and public buildings – all while protecting and enhancing the urban forest.

The TreeLine USA® program exists to recognize best practices in public and private utility arboriculture, demonstrating how trees and utilities can co-exist for the benefit of communities and citizens.

The Arbor Day Foundation collaborates with the [National Association of State Foresters](#) on this initiative. These state foresters bring expertise in balancing the demands of expanding utility needs in our communities alongside the benefits of providing adequate care for our urban forests.



Five Core Standards

[Quality Tree Care](#) — Industry standards for pruning, planting, removals, trenching, and tunneling near trees are consistently followed..

[Annual Worker Training](#) — Utility employees and contract workers are trained at least annually in best practices.

[Tree Planting and Public Education](#) — Tree planting and public education programs are available to the public and paying customers, demonstrating proper tree planting, placement, and pruning while expanding the tree canopy in the community.

[Tree-Based Energy Conservation Program](#) — A formal tree-based energy conservation program is in place, putting special consideration on the value of trees in conserving energy.

[Arbor Day Celebration](#) —

Trees and the Law

- Tree Stewards role is community education, not refereeing.
- Local government trees
- Private landowner trees
 - Neighborhood association
 - Certified arborist
 - Lawyer

<http://library.municode.com/index.aspx?clientId=10893&stateId=46&stateName=Virginia>

